

The Fine Structure of X-Ray K-Absorption Spectra and the Hall Effect in Vanadium

83553 8/020/60/134/001/004/021 B019/B060

constant, while metallic vanadium, in accordance with its p-type conductivity, has a positive Hall constant. The effective carrier Silicides concentration n# and its Hall mobility were determined with the aid of the Hall constants obtained. Results are compiled in Table 1. As may be seen from Fig. 1, the K-absorption edge undergoes a considerable and regular alteration in the case of increasing silicon content. Only that point of the edge remains unchanged, which characterizes the position of the original absorption range in the energy spectrum. The absorption maximum shifts toward higher energies on a transition of metallic vanadium to the silicides with rising Si content, and on a further transition to V205. Owing to the invariable position of the original absorption range, the shift of the maximum leads to a widening of the edge and, hence, causes the "mean point" of the K-edge to shift toward shorter wavelengths. With increasing Si content the width of the K-edge approaches that of V205, which is a compound with a large part of ionic bond. This indicates a polarization of the metal atoms in the siliconrich silicides and a heteropolar component in metal-silicon compounds.

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The Fine Structure of X-Ray K-Absorption Spectra and the Hall Effect in Vanadium Silicides s/020/60/134/001/004/021 во19/во60

This is in good agreement with results obtained from a quantum-mechanical calculation of the energy spectrum of electrons for molybdenum distilicide (Ref. 9). The authors finally discuss the behavior of the ultra-longwave absorption maximum A (Fig. 1), which is connected with the ultra-longwave absorption in the region of hybridized 3d-states of transition of K-electrons in the region of hybridized 3d-states of transition metal atoms. The authors believe that the shift of absorption maximum A is related to the d-states perturbed by the surrounding silicon atoms. There are 1 figure, 1 table, and 10 references: 6 Soviet, 2 German, 1 US, and 1 British.

ASSOCIATION:

Institut metallokeramiki i spetsial nykh splavov Akademii nauk SSSR (Institute of Powder Metallurgy and Special Alloys of the Academy of Sciences USSR). Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo Akademii nauk SSSR (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the Academy of Sciences USSR)

Card 3/4

The Fine Structure of X-Ray K-Absorption Spectra and the Hall Effect in Vanadium

Silicides

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PRESENTED:

April 29, 1960, by A. P. Vinogradov, Academician

SUBMITTED:

April 29, 1960

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s/020/60/135/003/033/039 B004/B060

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Vaynshteyn, Z. Ye., Zhurakovskiy, Ye. A., and Staryy, I. B.

TITLE:

AUTHORS:

X-Ray Spectrum Analysis of Titanium Beryllides 17

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 3,

pp. 642 - 644

TEXT: The authors refer to the obscure points found in literature concerning atomic interaction in beryllides of transition metals. They wanted to clarify this problem by studying the fine structure of X-ray spectra of titanium beryllides. The specimens were, besides pure titanium metal, TiBe and TiBe, prepared by the Institut metallokeramiki i spetssplavov AN USSR (Institute of Powder Metallurgy and Special Alloys of the AS UkrSSR) and placed at the authors disposal by G. V. Samsonov. The apparatus used for the X-ray spectrum analysis had been described in Refs. 8,9. Both the fine structure of the absorption spectrum (exposure 4-6 h at 15 kv, 40 ma) and the fluorescence spectrum (fine structure of the Kβ₅ line) (exposure 20-40 h, 15 kv, 70 μa) were photographed. A shift

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X-Ray Spectrum Analysis of Titanium Beryllides

S/020/60/155/003/033/039 B004/B060

of the K β_5 line, as well as of points m and A of the edge of the absorption band was observed in beryllides, as against the Ti spectrum. Fig.1 illustrates this shift, taking the position of the K β_5 line in pure titanium as the zero point of graduation. The relative position of these points on the energy scale (ev) is shown in Table 2:

Kβ _{5max}	m	A	
Ti 0	6.7 0.2	17.8 0.5	
TiBe 3.8 0.2	7.5 0.2	23.0 0.3	
TiBe ₂ 3.8 0.2	7.2 0.2	22.6 0.3	

tive of a metallic character of titanium beryllides, the valence electrons being common to both atoms. The donor-acceptor interaction between jd electrons of Ti and 2s electrons of beryllium is bound to be small. There are

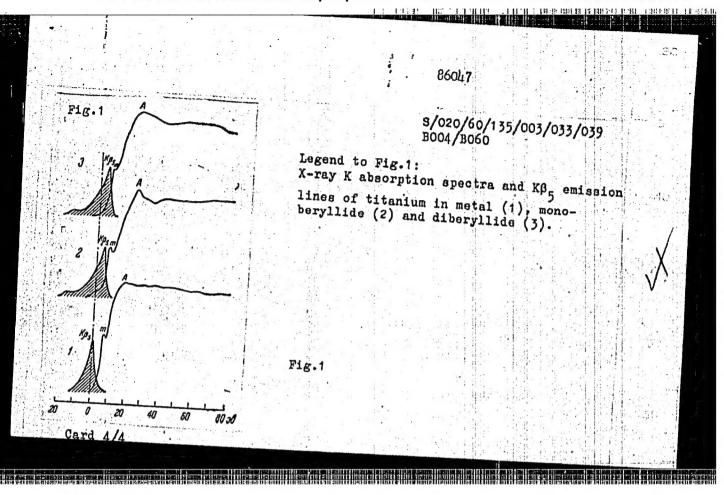
The experimental data are indica-

1 figure, 2 tables, and 9 references: 5 Soviet and 4 German.

Card 2/4

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	Geochemistry and	Analytical Chem	istry imeni	
	V. I. Vernadskiy Odesskiy pedagogi	cheskiy institu	t im. K. D. Us	ninskogo
	(Odessa Pedagogic	al Institute im	eni K. D. Ushi	iskiy)
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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020003-3



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s/126/61/012/003/004/021

AUTHORS:

Vaynshteyn, E.Ye., Verkhoglyadova, T.S.,

Zhurakovskiy, Ye.A., and Samsonov, G.V.

TITLE:

The fine structure of X-ray absorption K-spectra of the metal in the homogeneous region of litanium

PERIODICAL: Fizika metallov i metallovedeniye, v. 12, no.3, 1961,

360-364

X-ray spectrographic studies of titanium carbide were published earlier. The present work investigated the effect of concentration changes of the titanium nitrogen system in the region where only the phase TiN exists (30-50 at.% N). Samples containing 11.7, 12.8, 14.7, 15.4, 17.5, 18.1, 18.8, 20.6, 21.2 and 22.4 wt.% nitrogen were prepared by the method given by Samsonov and his team (Ref. 5: Sb. Metallokeramicheskiye materialy i metody ikh issledovaniya, AN USSR, Kiyev, 1959, p.53 (Symposium: Cermets and methods of studying them, AS Ukr.SSR, Kiev, 1959, p.53). X-ray phase analysis showed that in all the specimens only one phase existed with a NaCl-type lattice having a parameter Card 1/3

The fine structure of X-ray .

30450 5/126/61/012/003/004/021

E021/E180 increasing from 4.212 to 4.235 kX with increasing nitrogen content. X-ray spectrographic studies were carried out on apparatus described earlier by I.B. Staryy, (Ref. 71 Izv. AN SSSR, ser, fiz. 1958, Vol. 20, 798). The crystalline structure of titanium nitride is always octahedral. Decreasing nitrogen content in the nitride phase, although maintaining the octahedral coordination, should lead to a reduction in the role of the p-functions, decreasing their contribution to the d-band and therefore decreasing the coefficient of absorption in the corresponding spectral region; this was actually observed for all compositions; except those with 21.2 and 22.4 wt.% nitrogen, which very nearly correspond to the stoichiometric composition of TiN. Another explanation of the change in the fine structure of absorption spectra is that in the nitride phase there is a considerable ionic component in the bonds which decreases with transition from the samples deficient in nitrogen to the compound with stoichiometric composition. This is confirmed by results of measurements of the electrical properties and microhardness of the samples. S.N. L'vov and V.F. Nemchenko are mentioned in the article for their contributions in this field. Card 2/3

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The fine structure of X-ray

S/126/61/012/003/004/021 E021/E180

There are 2 figures and 16 references: 13 Soviet-bloc and 3 non-Soviet-bloc. The English language reference reads as follows: Ref. 12: G. Kimball, J. Chem. Phys., 1940, Vol. 8, 188.

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov AN USSR (Institute of Powder Metallurgy and Special Alloys, AS Ukr.SSR)

Institut neorganicheskoy khimii Sibirmkogo otdeleniya AN SSSR (Institute of Inorganic Chemistry, Siberian Department AS USSR)

SUBMITTED: January 2, 1961

Card 3/3

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AUTHORS:

Vaynshteyn, E. Ye. and Zhurakovskiy, Ye. A.

TITLE:

Fine atructure of X-ray absorption K-spectra of titanium in complex solid solutions of the TiC-TIN system

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 140, no. 5, 1961, 560 - 562

TEXT: This is a contribution to the extensive experimental and theoretical material on carbides and nitrides of transition metals. S. V. Samsonov et al. (DAN; 155, no. 3, (1960)) studied the electrical properties of the TiC-TiN system. The authors used Samsonov's specimens for their tests. The K-absorption edge of titanium was examined with an K-ray spectrograph (G. V. Samsonov et al., Dop. AN USSR, 8, 838 (1958)). The analyzer was a bent

quartz crystal, in which the (1011) plane was the reflecting plane (radii of curvature, 2600 and 1650 mm). The X-ray photon energy was determined with an error of ± 0.3 ev. K-absorption edges of 7 alloys of the system under consideration, averaged from three measurements, are shown in Fig. 1. The dotted theoretical curves fit the experimental, continuous curves. The card 1

Fine structure of X-ray...

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that the metal atoms in the octahedral neighborhood change gradually during the transition from pure nitride to pure carbide, and that one metalloid is statistically replaced by the other. This process is accompanied only by a slight change of the lattice constant (about 3%) and a monotonic diminution of the carrier concentration. The authors think that the jd conduction band of the metal in carbides and nitrides is little filled. The donor-acceptor interaction of the 3d electrons of titanium with the conduction electrons of metalloids is in significant. The structural changes of the K-absorption edge during the transition from pure carbide to pure nitride are monotonic (Fig. 1). The structure of the absorption edge becomes more distinct with increasing carbon content in the vicinity of the titanium atoms. This fact is connected with the scattering power of metalloid atoms. The results obtained are in good agreement with those of G. V. Samsonov (Sborn. nauchn. tr. Mosk. inst. tsvetn. met. i zolota im. M. I. Kalinina, no. 30, v. 1 (1957); ZhTF, 26, 299 (1950)). G. V. Samsonov, Corresponding Member AS UkrSSR, is thanked for providing the specimens and for participating in the work. There are 1 figure and 19 references: 14 Soviet and 5 non-Soviet. The references to English-language publications read as follows: H. J. Juretschke et al., J. Phys, Chem. Solids, 4, 118 (1958); P. Duwz et al., J. Electrochem. Soc., 27,

ninnous de createste en bene de la besente, met d'el d'ambérete, promis le company de la company de \$/020/61/140/003/008/020 B104/B125 Fine structure of X-ray ... Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii ASSOCIATION: nauk SSSR (Institute of Inorganic Chemistry of the Siberian Department of the Academy of Sciences USSR), Institut metallokeramiki i spetsial'nykh splavov akademii nauk SSSR (Institute of Powder Metallurgy and Special Alloys of the Academy of . Sciences USSR) May 6, 1961, by A. P. Vinogradov, Academician April 28, 1961 SUBMITTED:

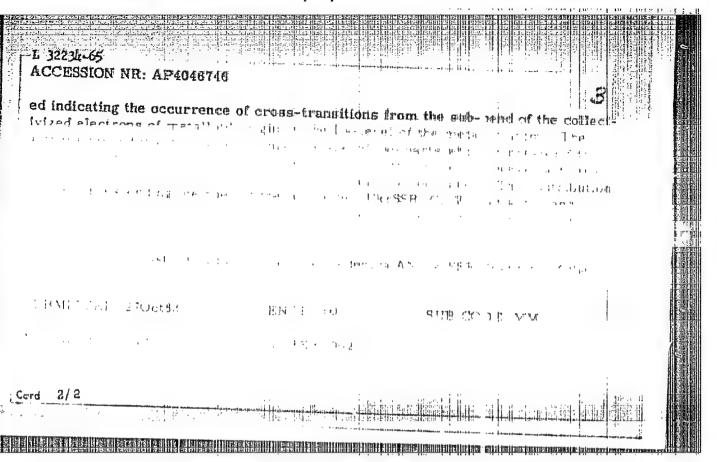
L 3221-65 ENP(a)/SPT(m)/SPT(a) 2/FF/PSP(b) 16-1/M-1 un de/st de ACESSION NR. AP4046745 S/0228/84/000/90 /4087/0084

AUTHOR Zhurakovskiy, Ye A , Aseganovskiy, V. P.

TITLE: Investigation of the homogenesiv region of titanium nit ripe by method of SOURCE Poroshkovsys metallurgiys, no. 5, 1964, 57-64

TOPIC TAGS: titanium nitride, homogenesity region, stoichion et lic composition, 1998 wave satellite, cross transition

ABSTRACT: Based on earlier findings, the sudions assess the clanges that take place in the homogeneous region of titanium nitride which has the character of a chemical bond with a tendency to an increase in its metallic component as the



 ACC NR. AP6032850

SOURCE CODE: UR/0020/66/170/003/0548/0551

AUTHOR: Zhurakovskiy, Ye. A.; Vladimirova, A. A.; Dzeganovskiy, V. P.

ORG: Institute of Problems of the Science of Materials, Academy of Sciences UK-SSR (Institut problem materialovedeniya Akademii nauk uKcSSR)

TITLE: The K_{R} -spectrum of x-ray fluorescence in metallic scandium and some of its high-melting compounds

SOURCE: AN SSSR. Doklady, v. 170, no. 3, 1966, 548-551

TOPIC TAGS: scandium, scandium compound, fluorescence spectrum, x ray spectroscopy

ABSTRACT: The structure of the valence bands in metallic scandium and its carbide, boride, nitride and oxide (Sc, ScC, ScB2, ScN, Sc203) were investigated in a study of the fine structure of $K_{oldsymbol{eta}}$ emission lines in these materials. Due to low stability of metallic Sc and some of its compounds, the samples were placed in a vacuum and excitation was brought about by means of a sealed copper tube (30 kv, 30-35 ma). The (1010) plane of a bent quartz crystal was used for analyzing the spectrum. The resolving power of the spectrograph was 10,000. Except for a small shift (1 ev toward the long wavelength side) observed for the ScC the short wavelength side of the $K_{\mathbf{g}}$ line remained unchanged in shape and position. The shape and position of the K_{eta_5} line appears to be

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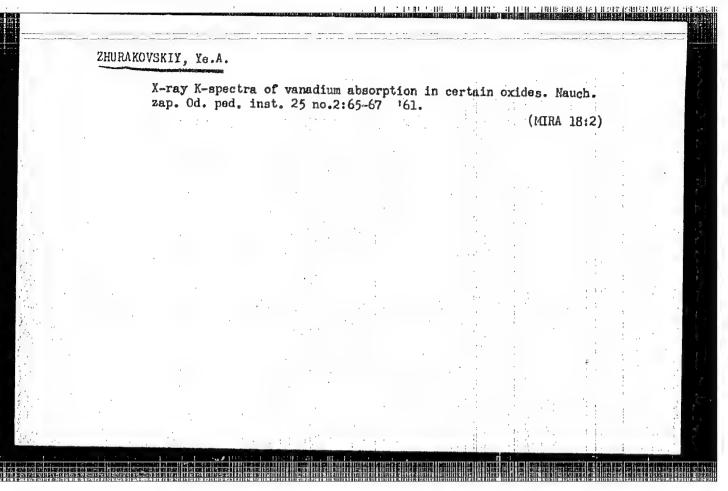
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ACC NR: AP6032850

most sensitive to the changes in chemical bonding. In contrast to the shape exhibited by Sc, in its compounds the $K_{\beta s}$ line shows two distinct maxima. The compounds where the covalent and ionic contributions to bonding are stronger, the intensity of the short wavelength maximum is less. ScB2 shows the strongest tendency toward covalent bonding. The position of the two peaks for ScB2 supports the idea that the short wavelength maximum corresponds to the metallic He-Me bond and the long wavelength maximum to the covalent Me-B bond. The spectrum of ScC shows two approximately equivalent maxima, both shifted by about 2 ev toward the shorter wavelength. This is in good agreement with previous notions that the strong bonding forces in high temperature transition metal compounds exist due to an almost equivalent contribution to bonding of the covalent and metallic d electrons. The spectrum of ScN shows the largest difference between the two maxima. The short wavelength maximum has the higher intensity and width. The increased contribution of the 2p states of N to the 3d band of Sc increases the probability of emission. The metallic nature of bonding in the nitride is supported by the disappearance of the long wavelength maximum of the K absorption edge (reported previously) and the closeness of approach between the $K_{\beta s}$ emission line (2p+ +3d states) and its satellite (28 states of the metalloid). It follows from this that the separation between the K_{β_5} and K_{β}'' lines can, to a certain degree, be used to characterize the energy levels of the valence bonds of the metal and the metalloid. Whenever these lines come close, one can expect the metallic exchange interaction to pre-

Card 2/3

ail over the coveransition metals cN, TiC, VC and um of the valenchis characterist ularity exists i rease in the same aparate. Presentas: 1 table, 1	crB show the ce electrons as ic of the high n their energy energy (Sev.	greatest degree mong the intera h melting compo y spectra. The	of approace of acting atoms ounds leads are melting po	th between sapproach one to supprish of the	r been inverse K_{β_5} and K_{β_5} es a stable spect that he Sc compo	estigated), " (the cortain re-
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ACCESSION NR: AR3006968

s/0058/63/000/008/D015/D015

SOURCE: RZh. Fizika, Abs. 8D107

AUTHOR: Zhurakovskiy, Ye. A.

TITLE: X-ray K-absorption spectra of vanadium in some oxides

CITED SOURCE: Nauchn. zap. kafedr matem., fiz. yestestvozn. Odessk. gos. ped. in-t, v. 25, no. 2, 1961, 65-67

TOPIC TAGS: X-ray spectrum, K-absorption, vanadium oxide

TRANSLATION: The K absorption edge was investigated for V in the oxides V_2O_3 , VO_2 and V_2O_5 . With increasing valence of V, the intensity of the long-wave maximum of absorption (shifted relative to the metal by 3--4.5 eV towards the long-wave side) increases, thus indicating transfer of part of the 3d-electrons of the V to the oxygen, and consequently the ionic character of the bond in the V-O

Card 1/2

L 19365-63 ACCESSION NR: AR3006968
system. Simultaneously with the displacement and the change in the brightness of the long-wave maximum, the principal absorption maximum shifts towards the short-wave side by am amount up to 10 eV. I. Nikiforov.
DATE ACQ: 06Sep63 SUB CODE: PH ENCL: 00
Card 2/2

ZHURAKOVSKIY, Ye.A.; DZEGANOVSKIY, V.P.

Fine structure of X-ray absorption K-spectra of scandium in metals and solid high-melting compounds. Dokl. AN SSSR 150 no.6:1260-1262 Je '63. (MIRA 16:8)

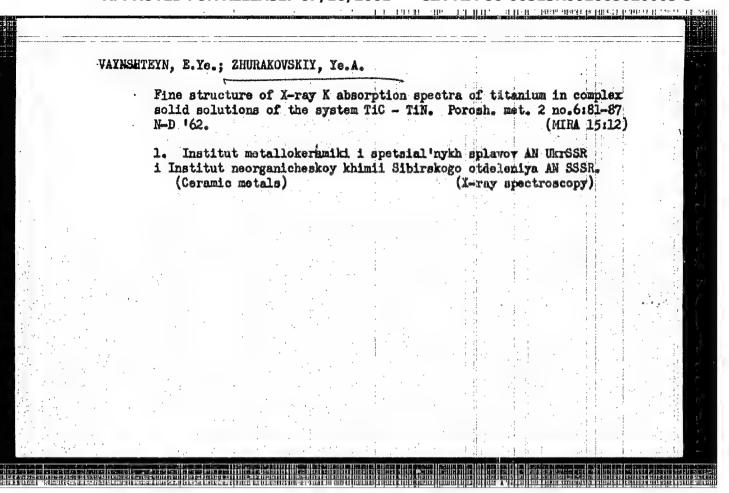
l. Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR. Predstavleno akademikom G.V.Kurdyumovym.

(X-ray spectroscopy)

ZHURAKOVSKIY, Ye. A.; LYASHCHENKO, A. B.; PRANTSEVICH, I. N.

"Elastic properties and differences in the electronic structure of some high melting compounds made by powder metallurgy."

Report presented at the Conference on Powder Metallurgy, Krakow, Poland, 19-21 Sept 63.



L 12625-63 BDS/EWP(q)/EWT(m) AFFTC/ASD ACCESSION NR: AP3003220 8/0020/63/150/006/1260/1262 AUTHOR: Zhurakovskiy, Ye. A.; Dzeganovskiy, V. P. TIME: The fine structure of the K-ray absorption K-spectra of and in solid refractory compounds Doklady, v. 150, no. 6, 1963, 1260-1262 TOPIC TAGS: x-ray absorption, K-spectra, scandium, titarilum, varuatium, hydrogan, boron, carbon, nitrogen, scandium nitride, scandium carbide karay ABSTRACT: In previous works by Zhurakovskiy et al., the fine structure of the K-spectra of titanium and vanadium, combined with hydrogen, burning carbon, and nitrogen, was related to the nature of chemical interaction in these phases and to the properties of the compounds. The present work deals in a similar minier with scandium and its compounds. The work was notivated by theoretical, as well as by practical reasons, inasmuch as scandium nitride and carbide have a high malting point (approximately 3000°) and a high electrical conductivity. The absorption was measured in pure metal, ScB sub 2, ScC fScH, and Sc sub 2 0 sub 3. The absorption spectra are given in a rigure, and their characteristic differences are pointed out. In particular, the long wavelength maximum does not remain same Card 1/2

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	in the compounds as in pure metal, but is shifted toward the shorter wavelength
	indicating a different kind of interatomic interaction in the mystallographic phase than in the case of titanium and varieding a little authors express their
	gratitude to I. Frantsevich. Adademician. An illerday. For May Academician in the state of the s
	interest in the work." The paper was presented by Academician G. V. Kurdyuzov on 21 Jan 1963. Orig. art. has: I figure.
	ASSOCIATION: Institut metallokeramiki i spetsial ny*kh splkyov Akademii nank USSR
	(Institute of Powder Metallurgy and Special Alloys, Academy of Sciences Ukrask)
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8/226/62/000/006/012/016 E039/E535

AUTHORS:

Vaynshteyn, E. Yo. and Zhurakovskiy, Ye.A.

TITLE:

The fine structure of X-ray K-absorption spectra of titanium in complex solid solutions of the TiC-TiN

. 1962. 61-84 system Poroshkovaya metallurgiya, no.6

PERIODICALI

The properties of refractory compounds of the transition metals are investigated using samples of TiC-TiH alloys.

obtained from G. V. Samsonov. These samples were cut from the TEXT: centre of hot pressed billets of TiC-TiN mixtures containing 25. 33, 50, 67 and 75% of one component. For determining their phase composition the samples were analysed by X-ray diffraction. The K-absorption edge was obtained using a bent quarts crystal spentrometer (radii quartz crystals 2600 and 1650 mm) which enable X-ray photons to be determined to an accuracy of 0.3 aV. The change in fine structure observed as the composition of the alloy is altered agrees very well with the theoretical formula:

 $\mu(\lambda) = \mu_1(\lambda)_R + \mu_2(\lambda) (100 - x),$

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The fine structure of X-ray

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where μ_1 and μ_2 are the absorption coefficients of Ti in TiC and TiN respectively and x is the percentage content of one phase in the complex solid solution. It is shown that the degree of filling of the 3d-state of the metal and the nature of its interaction with metalloid atoms remains practically unchanged as the composition of the alloy is altered. There is 1 figure.

ASSOCIATIONS: Institut metallokeramiki i spetsial nykh splavov AN USSR (Institute of Metalceramics and Special Alloys AS UkrSSR) and Institut neorganicheskoy khimii 50 AN SSSR (Institute of Inorganic Chemistry SO AS USSR)

SUBMITTED:

April 14, 1962

Card 2/2

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8/849/62/000/000/003/016 A006/A101

AUTHORS:

Vaynshteyn, E. Ye., Zhurakovskiv. Ye. A., Staryy, I. B.

TITLE:

Roentgenospectral analysis of the force of chemical bond in hydrides of refractory metals on the example of titanium and vanadium com-

SOURCE:

Vysokotemperaturnyye metallokeramicheskiye materialy. Inst. metalloker. i spets. spl. AN Ukr.SSR. Kiev; Izd-vo AN Ukr.SSR, 1962, 19 -

There are only indirect data available on the type of interatomic TEXT: interaction in hydrides. The authors attempted for the first time to obtain direct information on the density of electron distribution over the energies in titanium and vanadium hydrides and to check by means of spectroscopy the hypothesis on the presence of a metallic bond between metal and hydrogen atoms in hydrides. For this purpose the authors investigated the fine structure of X-ray absorption K-spectra of titanium in hydrides with 1.2 and about 3 weight \$ H, and of vanadium in hydrides with 0.12; 0.28; 0.475; 0.75; 1.1 and 1.45 weight % H.

Card 1/3

Roentgenospectral analysis of the..

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Absorption edges of initial metals were also studied. To eliminate undesirable consequences of heating the specimen during the experiments, the emission spectra of Ti in hydrides of various chemical composition were analyzed with the use of the fluorescence method. All the tests were performed on a high-intensity vacuum tube-spectrograph with Johann focusing. The titanium hydrides were prepared and analyzed by V. M. Mikheyeva, and the vanadium hydrides by T. V. Dubovik and G. V. Samsonov. The experiments proved the hypothesis on the "metallization" of the metal-hydrogen bond in the aforementioned compounds and the penetration of 1selectrons of hydrogen into the vacant 3d-band of the transition metal. This is manifested in the gradual decrease (in comparison with the metal) of intensity of the long wavelength maximum, within the range of the basic edge of the hydride absorption band, and its displacement to the short wavelength side with increasing hydrogen content in the hydrides until this maximum vanishes entirely. A further increase of the hydrogen content in the hydrides does not cause changes in the absorption edge structure of the metal in hydrides. As expected, the long wavelength maximum of absorption in the spectrum of the transition metal in vanadium hydrides vanishes at lesser hydrogen contents in the alloy, than in titanium hydrides. Investigations of the fine structure of the $K_{\beta, \gamma}$ -band of titanium

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Roentgenospectral analysis of the..

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in the hydrides confirm fully the conclusions on the nature of the chemical bond forces in these compounds. The conclusions were drawn from the analysis of experimental data on the absorption spectra of elements in these compounds. However, the peculiarities of the fine structure of Ti emission bands in the hydrides and its changes, depending on the composition of the compounds, may indicate changes in the nature of forces of chemical interaction between hydrogen and metal in the alloys, which differ in the degree of completeness of the transition metal 3d-band. It can also be considered that 1s-electrons of hydrogen do not completely lose their "individual" nature when a generalized sd-band is formed in the hydrides and that the effective hydrogen charge is not equal to 1 and can be different for hydrides rich or poor in hydrogen. This explains also the incomplete vanishing of the Kgm-satellite in the emission spectra of titanium in the hydrides. There are 5 figures.

Card 3/3

- VAYNSHTEYN, E.Ye.; VERKHOGLYADOVA, T.S.; ZHURAKCVSKIY, Ye.A.;

SAMSONOV, G.V.

Fine crystal miructure of X-ray K-absorption spectra of metals in the titanium nitride homogeneity field. Fiz. met. 1 metalloved. 12 no.3:360-363 160. (MIRA 14:9)

1. Institut metallokeramiki i spetsial nykh splavov AN USSR 1 Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR. (Absorption spectra)

(Titanium nitride—Spectra)

ZHURAKOUSKIY, Ye.A.; DZEGANOUSKIY, V.P.

X-ray spectroscopy in the field of the homogeneity of titanium nitrides, Porosh.met. 4 no.5:57-64 S-0 64.

(MIRA 18:10)

1. Institut problem materialovedeniya AN UkrSSR.

EPR/EWP(j)/EPF(c)/EWT(m)/BDS S/2910/61/001/01-/0179/0186 ACCESSION NR: AT3002113 AUTHORS: Zhurauskene, E. Yaychyunas, S. 10 Relationships between the absorption and luminescence spectra of several aromatic compounds SOURCE: AN Lit SSR. Litovskiy fizicheskiy sbornik. v.1, no.1-2, 1961, 179-186 TOPIC TAGS: absorption spectrum luminescence spectrum, aromatic compound, impurity center, , pyrene solution in n-paraffine, 3.4-benzopyrene solution in n-paraffine, n-hexane, n-octane, pyrene solution, n-paraffine, 3.4-benzopyrene solution ABSTRACT: The paper provides a survey of existing literature on the luminescence and absorption spectra of various monomolecular aromatic hydrocarbons in frozen n-paraffine solutions, and describes the results of an experimental investigation of the effect of the rate of freezing on the absorption spectrum of pyrene in n-heptane. A comparison is provided of the luminescence and absorption spectra of pyrene as against those of 3.4-benzopyrene in n-paraffine solutions at 77K. It is apparent that in some solvents (pyrene in n-hexane and n-octane, 3.4-benzopyrene in n-heptane and n-hexane) several oscillation-band series can be found in the absorption and fluorescence spectra, the number of which is identical in both spectra. Card 1/2

L 18581-63

ACCESSION NR: AT3002113

The electron transition 0'-0" in these spectra is represented by several resonance lines which correspond to the 0'-0" transitions in various impurity centers. In solution of pyrene in n-heptane and of 3.4-benzopyrene in n-octane, fluorescence and absorption spectra with a differing number of oscillatory bands were found. It is also shown that the number of oscillatory-band series in the absorption spectrum of solutions of 3.4-benzopyrene in n-octane increases because of the unequal time employed in freezing. The appearance of the differences and of a multiplet structure is attributed to the presence of differing impurity centers, the number of which depends on the method of freezing and, also apparently, on the oscillations of the crystalline lattice of the solvent. Orig. art. has 3 figures.

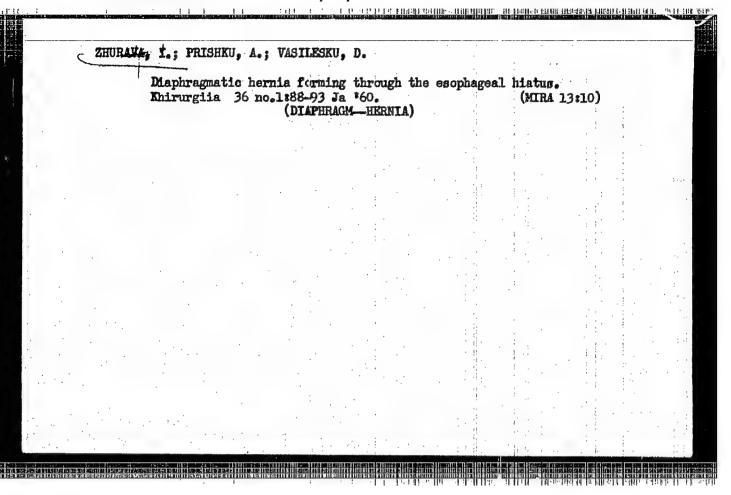
ASSOCIATION: Vil'nyusskiy gosudarstvenny*y universitet imeni V. Kapsuka-

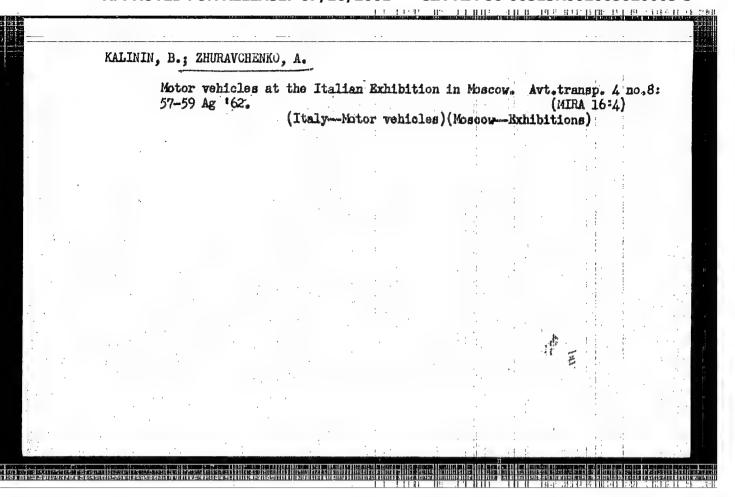
sa (Vilnyus State University)

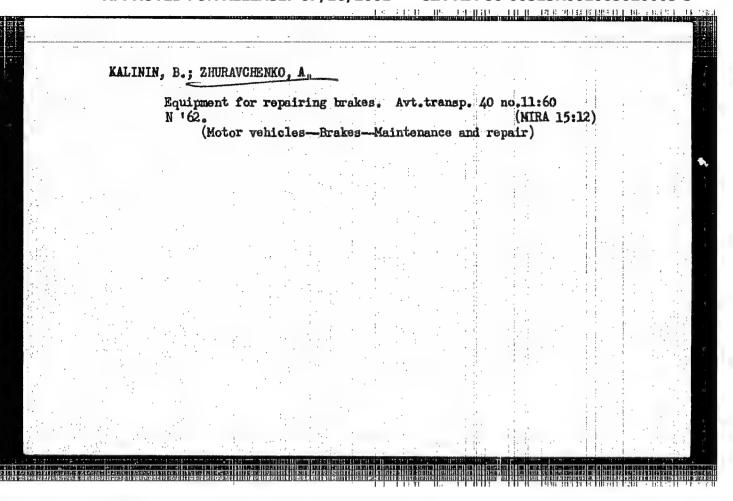
SUBMITTED: 21Apr61 DATE ACQ: 23Apr63 ENGL: 00

SUB CODE: PH, CH NO REF SOV: 013 OTHER: 001

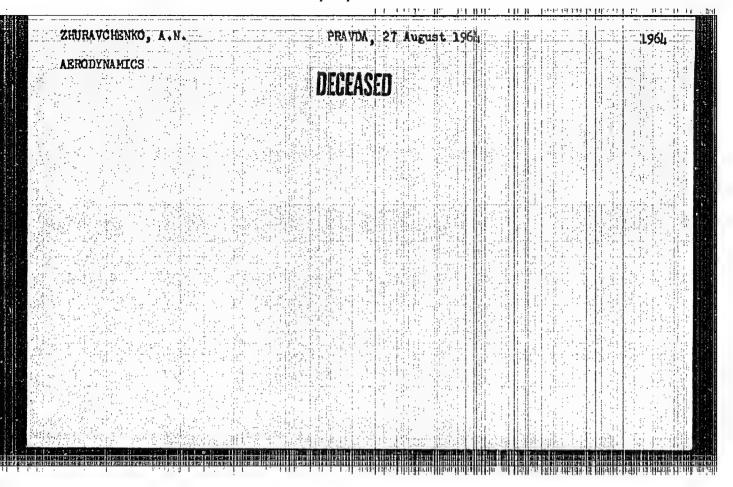
Card 2/2

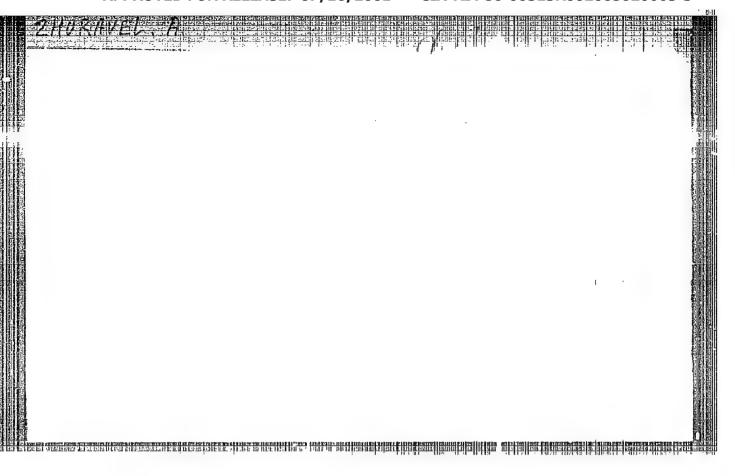


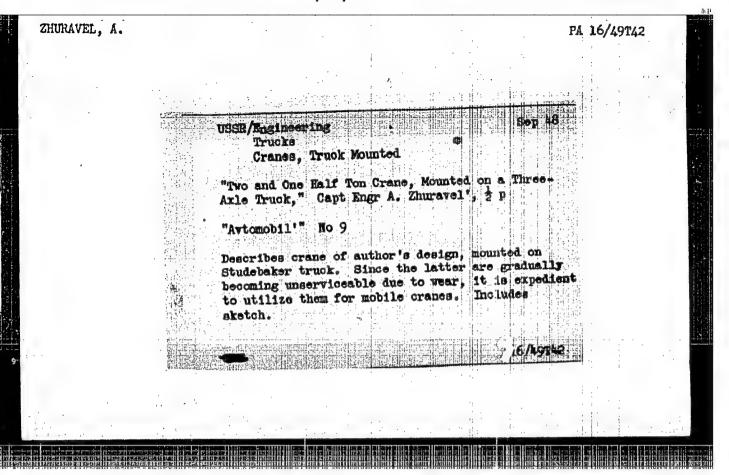




"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020003-3







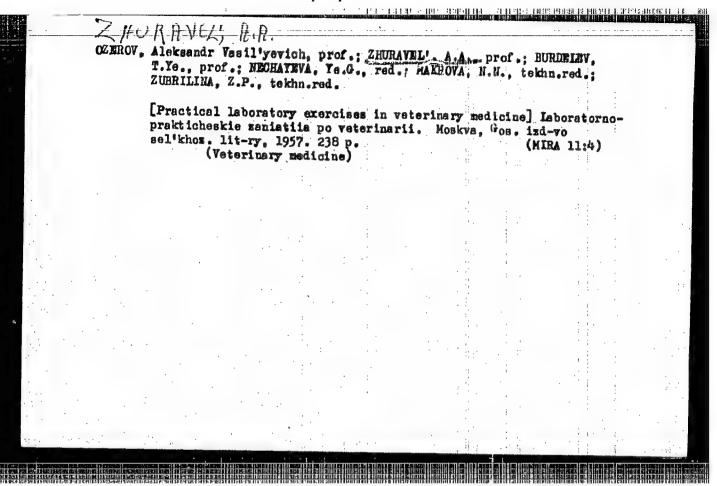
Minks

Neural mechanism of reaction of an animal to the introduction of a foreign protein, Ear.

Monthly List of Russian Accessions, Library of Congress, October, 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065020003-3"

ZHURAVEL' A. A. Rukovodstvo K prakticheskim zanystiyam po patologicheskoy fiziologii zhivotnykh. m., sel'khozgiz, 1954. 191 s. s ili; lL. ill. 21 sm. (uchebniki i ucheb. posobiya dlya vyss h. s.-kh. ucheb. zavedeniy). 10.000 eks. 4 r. 5 k. v per.——(54—58109) 619:616-092(076.5)



USSR/General Problems of Pathology - Allergy.

'Abs Jour : Ref Zhur - Biol., No 4, 1958, 17200

Author : Zhuravel', A.A.
Inst
Title : On the Nervous Mechanism of Anaphylaxis.

Orig Pub : Sb. rabot. Leningr. vet. in-t, 1957, vyp. 16, 119-123.

Abstract : No abstract.

YERSHOV, V.S., prof., doktor veter.nsuk; ZHURAVEL', A.A., prof., doktor veter.nauk; PREOBRAZHENSKIY, N.M., dotsent, kand.veter.nsuk; IEL'TSOV, S.G., prof., doktor veter.nsuk; ITKIN, B.Z., dotsent; NOSKOV, N.M., dotsent, kand.veter.nsuk; TEMEL'IANOVA, N.I., red.; BALLOD, A.I., tekhn.red.

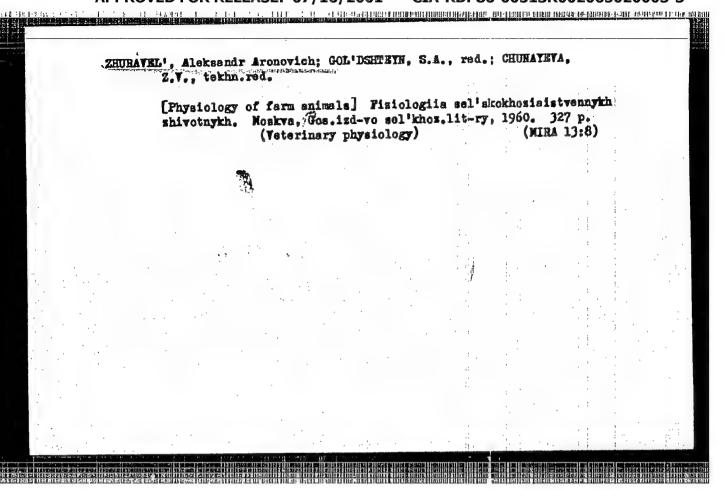
[Principles of veterinary medicine] Osnovy veterinarii. Izd.2., ispr. i dop. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 437 p.

(MIRA 13:10)

1. Direktor Vsesoyusnogo instituta gel'mintologii im. K.I.Skrysbina (for Yershov). 2. Zeveduyushchiy kafedroy fiziologii Leningradskogo veterinarnogo instituta (for Zhuravel'). 3. Moskovskaya
veterinarnaya akademiya (for Preobrazhenskiy). 4. Zaveduyushchiy
kafedroy operativnoy khirurgii Moskovskoy veterinarnoy akademii
(for Yel'tsov). 5. Zaveduyushchiy kafedroy epizoctologii Oronburgskogo sel'akokhozyayatvennogo instituta (for Noskov).
(Veterinary medicine)

DAIMATOV, Mikhail Konstantinovich; ZHURAVEL', A.A.,; KUROPOV, Y.M.;
SOLOVEY, A.S., red.; PROKOT'YEVA, L.N., tekhn.red.; DEYEVA,
V.M., tekhn.red.

[Pathological physiology of farm snimels] Pathologicheskeia
fiziologiia sel'skokhoziaistvennykh shivotnykh. Izd.2., perer.
i dop. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 511 p.
(MIRA 13:9)

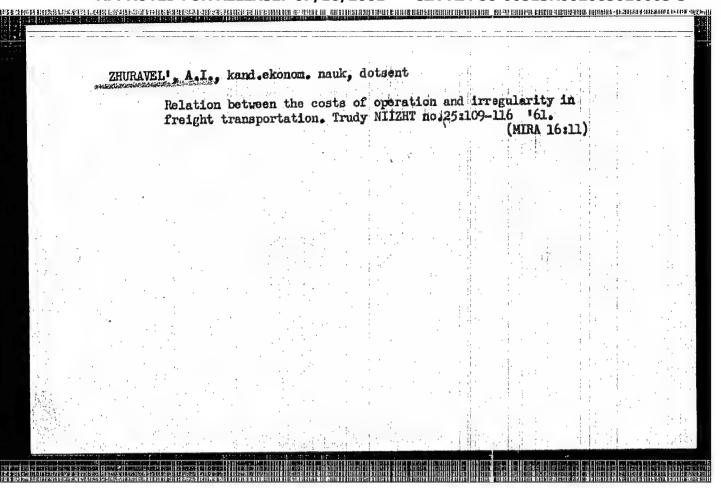


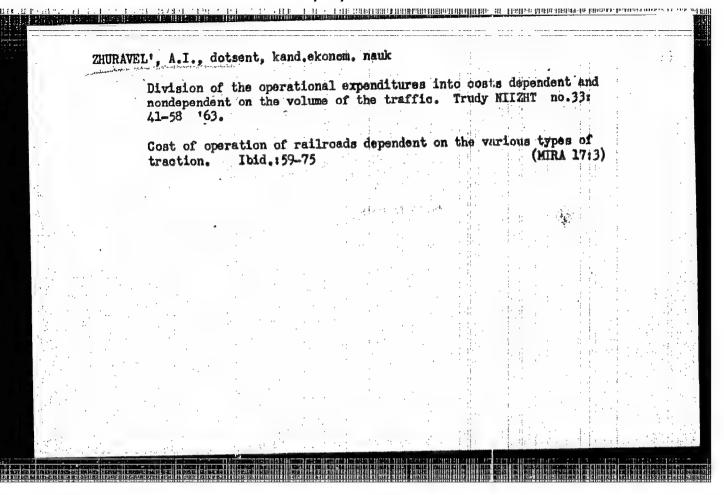
ZHURAWEL' A.F. Device for hardening reinforcement steel. Mekh. stroi. 21 no.3: 2728 Mr '64. (MIRA 17:3) 1. Nachal'nik proizvodstvomnogo otdela kombinata Kemerovoshakhtokhimstroy.

ZHURAVEL', A.I., kand. ekonom. nauk; KAZAKOVTSEV, N.M.; SIDOROVICH, Ye.A., inzh.; KOZHEVNIKOV, Ye.N., inzh.; RAZUVATEV, A.S., inzh.

Improvement of the economic work in stations. Zhel. dor. transp. 47 no.3:69-72 Mr '65. (MIRA 18:5)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdela stantsii Novosibirsk-Glavnyy (for Kazakovtsev).





ZHURAVEL', A.I., dotsent, kand.ekonom. nauk; BONDARENKO, V.O., inzh.

Methodology for determining labor productivity and the cost of operation of classification yards and section stations. Trudy NIIZHT no.33:76-107 '63. (MIRA 17:3)

ZHURAVEL', A. I., kand. ekonom. nauk; BONDARENKO, V. O., insh.;
FOTAFOV, F. R.

Labor productivity and costs of operation of clausification
yards. Zhel. dor. transp. 45 no.1:20-24 Ja '63.
(MIRA 16:4)

1. Glavnyy insh. stantsii Inskaya (for Potapov).

(Railroads—Management)

ZHURAVEL', A.I., kand. ekonom. nauk; VOZNYUK, G.A., inzh.

Determining the economic efficiency of the transfer of short distance freight to the automotive transportation. Zhel. dor. transp.

46 no.8:50-52 Ag 't4.

1. Nachal'nik otdela planirovaniya perevczok gruzovoy sluzhby Zabaykal'skoy dorogi (for Voznyuk).

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KOSTYUK, Z.D. (Kiyev); ZHURAYEL', A.Ye. [Zhuravel', O.O.] (Kiyev);
ORZHIBOVSKIY, V.V. [Hrshybovs'kyi, V.V.] (Kiyev)

Investigating the stressed state of axial-flow compressor nowsles. Prykl.mekh. 6 no.21202-214 '60.

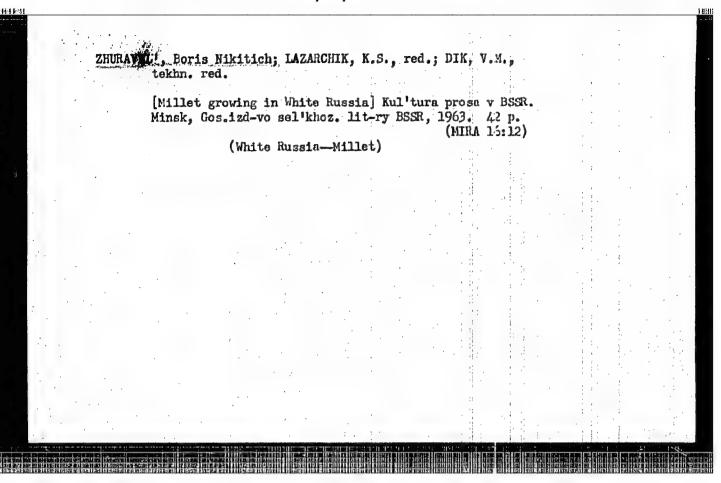
(KIRA 1318)

1. Institut stroitel'noy mekhaniki AM USER.

(Gompressors—Aerodynamics)

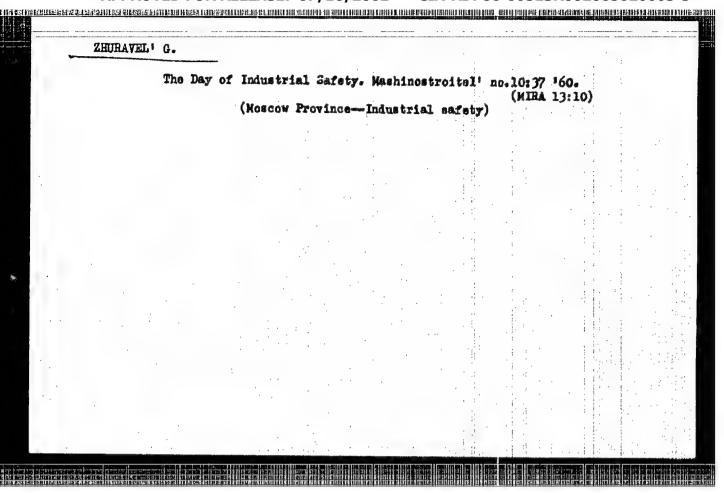
AND SEPTION OF THE PROPERTY OF THE SEPTION OF THE SEPTION OF THE PROPERTY OF T

USSR/Cultivated Plants - Fodder. Ref Zhur - Biol., No 4, 1958, 15706 Abs Jour Author B.N. Zhuravel Inst. Results of Corn Variety Studies at the Polesskaya Title Experimental Station (Preliminary Report). (Rezulitaty sortoizucheniya kukuruzy na Polesskoy opytnoy stantsii (Predvaritel'noye soobshcheniye). : Kukuruza v BSSR. Minsk, AN BSSR, 1957, 96-105 Orig Pub The variety testing of corn at the Polesskaya Experi-Abstract mental Station was performed on 112 varieties of hybrids and self-pollinating lines, obtained from various rayons and institutuions of the USSR. The yield count was made in the milky-waxy and full ripe stage. of the cobs. The larger part of the verieties in the conditions of southern Bielorussia become ripe. Many yielded large harvests of green stuff and cobs in the Card 1/2

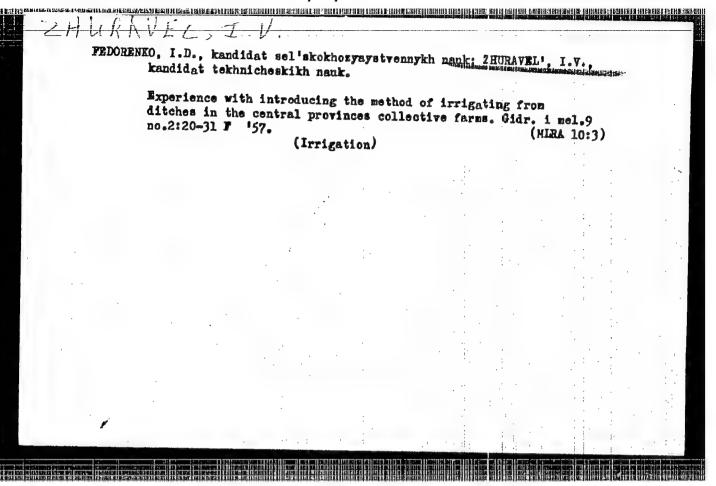


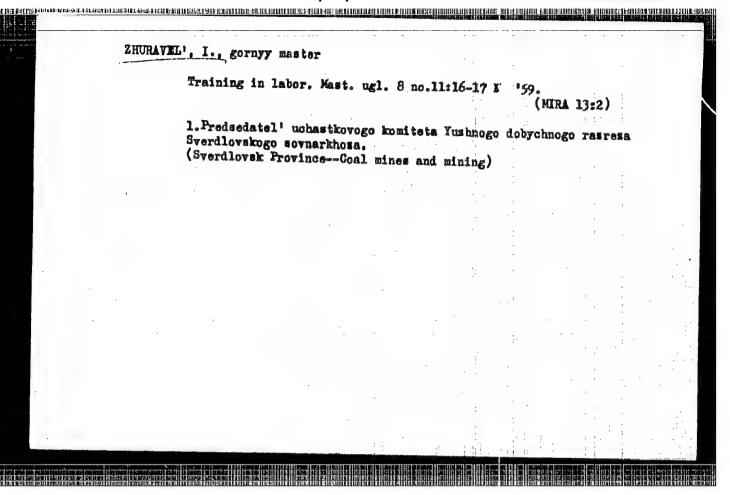
Il'yenkov, A.I.; ZHURAVEL', F.A.; RAKITYANSKIY, D.F.

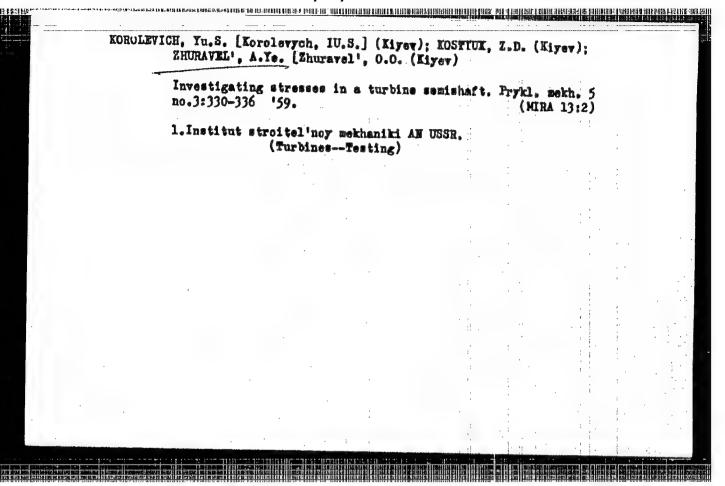
Device for the automatic check of the parameter stability of semiconductor devices. Trudy Inst. avtom. 1 elektrometr. SO
AN SSSR no.9:88-93 '64. (MRA 17:11)



ZHURAVEL!, I.					- 1	3	* \$ *		
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ZHURAYEL', I.Y., dotsent; FLEKSER, Ia.N., doktor tekhn.nauk, red.;
GIL'MAN. Je.A., red.; VCZMESENSKIY, A.D., tekhn.red.

[Hydraulics; control lessons for correspondence students in engineering faculties Majoring in irrigation and drainage]
Gldravlika; kontrol'nye zanistiia dlia studentor-saochnikov gldroseliorativnoi spetsial'nosti inshenernogo fakul'teta.
Balashikha, 1959. 20 p. (MIRA 14:12)

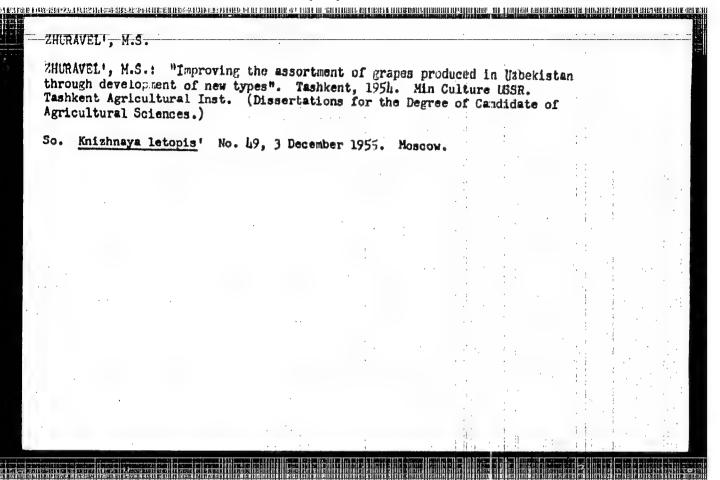
1. Balashikha, Vsesoyumnyy sel'skokhosyaystvennyy institut saochnogo obrazovaniya.

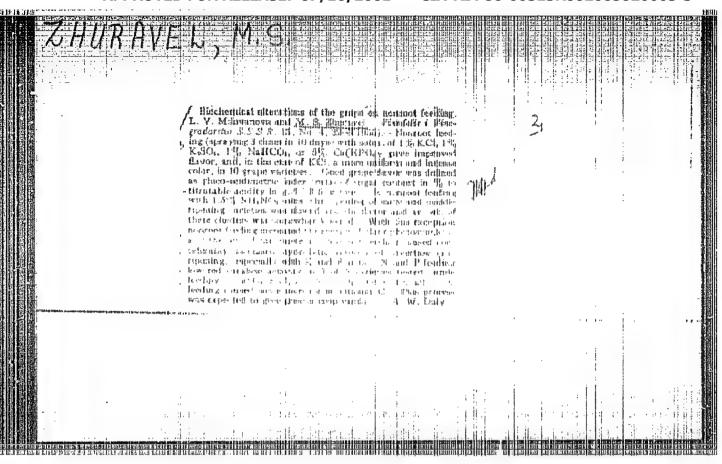
(Hydraulics)

ZHURAVEL', M. S., NEGRUL', A. M., KATS, Ya. F.

25751 ZHURAVEL', M. C. Sorta Vino-Grada Sredneyeziatskoy Stantsii Vir.
Vinodeliye 1 Vinogradad-Arstvo SSS. R. 1948, No. 6, s. 24-28.

SO: Letopis' Zhurnal Statey, No. 30, Moscow.





USSR/Cultivated Plants - Fruits. Berries.

M-6

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30082

Author

: Negrul', A.M., Zhuravel', M.S.

Inst

Title

: Large-Scale Experimentation in the Veneyard.

Orig Pub : Sad 1 occored, 1957, No 6, 64-67.

Abstract

: A survey is given of the distribution of new selected: grape varieties in Uzbekistan. Good results are indicated which were gotten from these varieties in other

republics.

Card 1/1

USSR / Cultivated Plants. Fruits, Berries.

Abs Jour

: Ref Zhur - Biologiya, No 13, 1958, No. 58777

Author

Inst

: Zhuravel!, M. S. : AII-Union institute of Plant Cultivation

Titlo

: Accelerated Propagation of Seedlings and of New Grape

Varieties

Orig Pub

: Vinodeliye i vinogradaratvo USSR, 1957, No 1, 22-26

Abstract

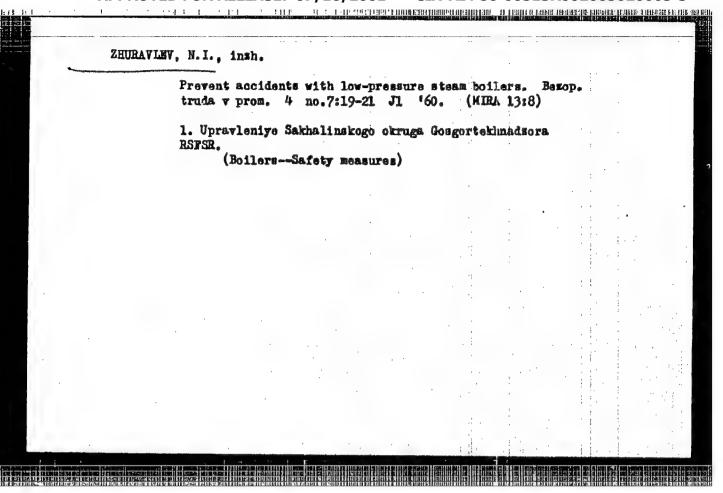
! The grafting of scions of prospective grape seedlings on adult shrubs permitted the Middle Asian experimental station of the All-Union Institute of Plant Cultivation to accelerate considerably the propagation of valuable varieties. The planting of shortened scious on highly productive ground gave a high yield of seedlings. --

M. R. Zlotin

Card 1/1

164

ZHURAVEL', N.A. Methods of hydrogeological studies in detailed prospecting for ore deposits. Razved. i okh. nedr 27 no.6:29-33 Je '61. (MIRA 14:9) 1. Gidrogeologicheskaya ekspeditsiya Irkutskogo geologicheskogo upravleniya. Water, Underground)



5/851/62/000/028/002/015 D296/D307

27 2400

Zhuravlev. N.N.

TITLE:

AUTHOR:

Nervous elements in the wall of the stomach in normal rats and in rats suffering from radiation sickness

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SOURCE:

Akademiya nauk Latviyskoy SSR. Institut eksperimental'noy i klinicheskoy meditsiny. Trudy. no. 28, 1962. Znacheniye faktora pitaniya v profilaktike luchevoy bolezni. no. 4. 21 - 30

TEXT: 110 white rats were exposed to a sublethal dose of radiation (700 r) emitted by the FYT Co-400-1 (GUT Co-400-1) apparatus.
122 rats were not exposed to radiation and served as the control group. Both the experimental and the control group were further divided into two subgroups, one of which was kept on wheat biscuits containing a protein-vitamin complex, considered to be an adequate diet, and the other on wheat biscuits alone, a diet considered to be deficient in proteins and vitamins. The animals were killed 36 hours, 5, 10, 20 and 50 days after exposure to radiation. The stomach was fixed in neutral formalin and the intramural nervous appacant 1/2

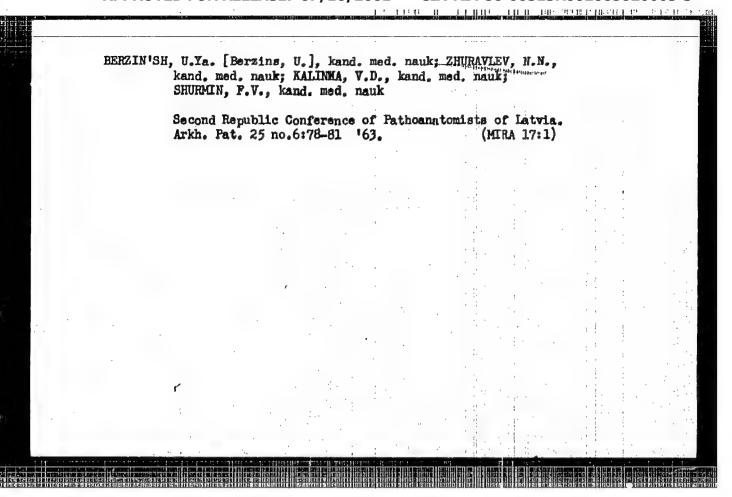
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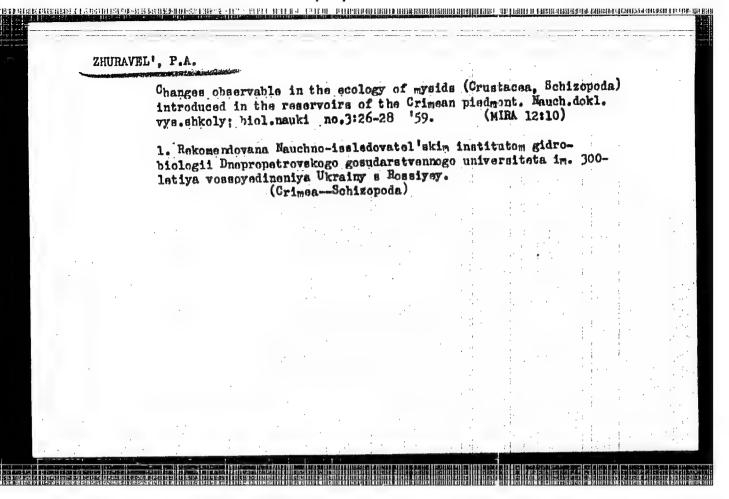
Nervous elements in the wall of ...

S/851/62/000/028/002/015 D296/D307

ratus of the stomach was impregnated with silver by the method of Bielschovskiy and Gross. The ganglion cells and the nerve fibers proved to be more vulnerable than the sensory nerve endings. The ganglion cells showed an increased uptake of silver, with changes in shape and size. Some cells showed vacuolization or underwent complete disintegration. The nerve fibers also showed an increased uptake of silver, with vacuolization of the axis cylinders and varicous thickenings, and some fibers even disintegrated completely. Changes in the sensory nerve endings were only slight, consisting of an increased uptake of silver and swelling confined to short stretches of some of the terminal processes. No relation between the described changes and the diet could be established. There are 6 figures.

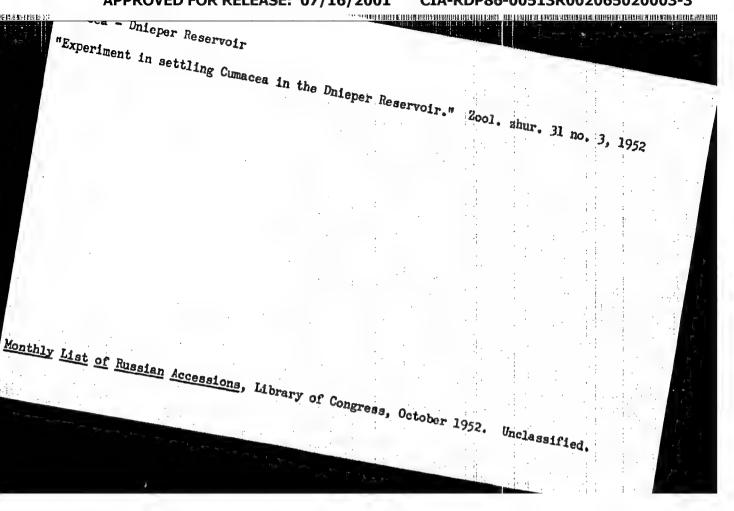
Card 2/2





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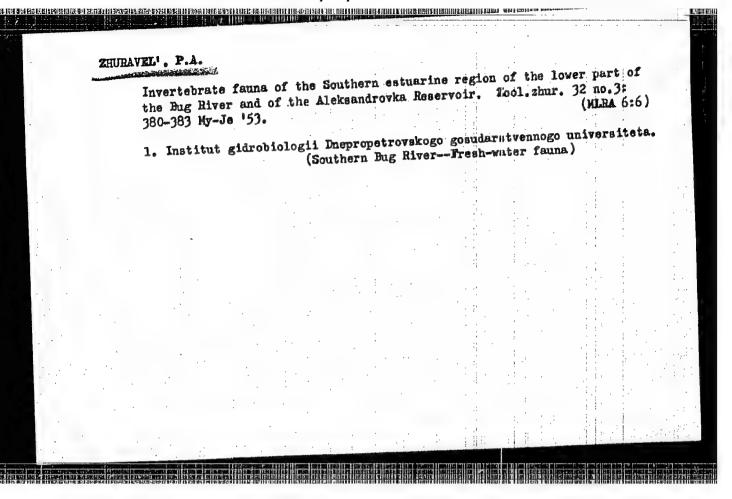
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	ater Basins," P. A. Zi	uravel', l ż pp		
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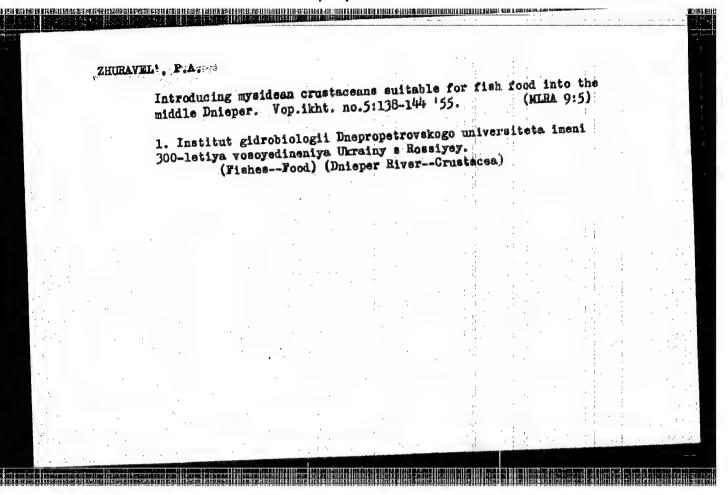


1.	ZHURAVEL!	P.A.	Prof.:	LUBYANOV.	I.P.

- 2. USSR (600)
- 4. Fresh-Water Fauna
- 7. Acclimatizing fauna serving as fish food in reservoirs and other water bodies of the southeastern Ukraine, Prof. P.A. Zhuravel', I.P. Lubyanov, Ryb.khoz. 29 no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.





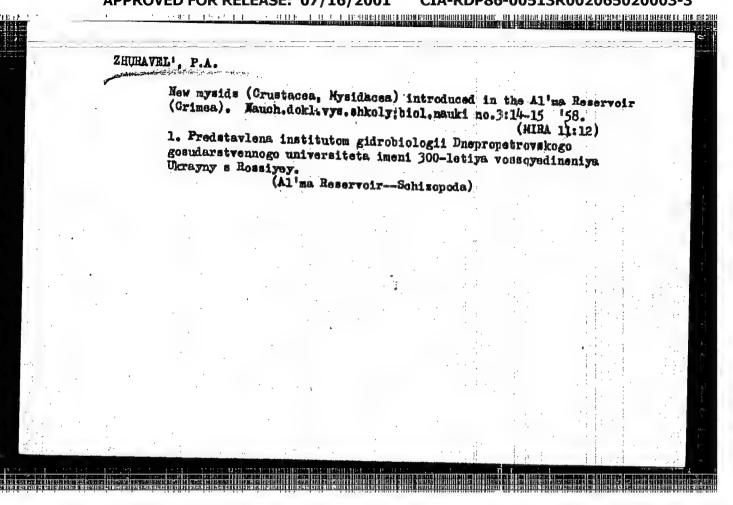
ZHURAVEL P.A.

Transplanting the crustacean Limnomysis benedeni Cz. as fish food to pond outside the floodland Dnepropetrovsk Province. Trudy Gidrobiol.ob-va 7:204-208 56. (MLRA 10:2)

1. Institut gidrobiologii Dnepropetrovskogo gosudarstvennogo universiteta.

(Dnepropetrovek Province—Crustacea)
(Fishes—Food)

Introduction of Mysidae (Crustaces) as a feed for fishes in reserveirs and other bodies of water in the Krivey Reg Basin.[with English susmary in insert]. Zeel.nhur.35 ne.8:1131-1138 Ag *56. (MLRA 9:10) 1.Nauchne-issledovatel'skiy institut gidrebiologii Dneprepetrovskege gosudarstvennege universiteta imeni 300-letiya vesseyedineniya Ukrainy a Ressiyey. (Krivoy Reg Basin--Kysidae)



AUTHOR:

Zhuravel', P.A.

SOV-21-58-4-25/29

TITLE:

On Enriching the Piscine Food Supply of Grimean Reservoirs (Ob obogashchenii kormovoy bazy ryb vodokhranilishch Kryma)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Hr 4, pp 456-458 (USSR)

ABSTRACT:

All investigators of freshwater reservoirs of the Crimea, such as Ya. Ya. Tseyeb, I.I. Puzanov, G.P. Trifonov, S.N. Ulomskiy, point out an underpopulation of fish and food fauna, which reduces the fish catch in these basins. The underpopulation of the fauna may be explained both by the history of this region, as was suggested by I.I. Puzanov and Ya. Ya. Tseyeb, and by contemporary conditions. The author's investigations show that favorable conditions have developed in the Crimean reservoirs for a number of faunal forms which are absent in the rivers feeding these reservoirs. Work on introducing fish species and food organisms into some Crimean reservoirs, initiated at the author's suggestion, by Crimean organization (aided by the hydrobiological research institutions of Dnepropetrovsk and Kiyev) in the spring of 1955, have already yielded the first positive results. Chemical and hydrobiological studies of the reservoirs into which

Card 1/2

SOV-21-58-4-25/29

On Enriching the Piscine Food Supply of Crimean Reservoirs

new species were introduced are being carried out under supervision of Professor G.B. Mel'nikov.

There are 7 Soviet references.

ASSOCIATION:

Nauchno-issledovatel'skiy institut gidrobiologii Dnepropetrovskogo gosudarstvennogo universiteta (Research Institute of Hydrobiology at the Dnepropetrovsk State University)

PRESENTED:

By Member of the AS UkrSSR, A.P. Markevich

SUBMITTED:

May 22, 1957

NOTE:

Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Fishes--Nutrition 2. Animals--Abundance

Card 2/2

AUTHOR:

Zhuravel', P.A., Professor

26-58-6-10/56

TITLE:

Enrichment of the Fresh Water Fauna of the Crimea (Obogashcheniye

fauny presnykh vodoyemov Kryma)

PERIODICAL:

Priroda, 1958, Nr 6, p 55-56 (USSR)

ABSTRACT:

The ponds and water reservoirs of the Crimea are mainly inhabited by small river fish and a few species of bottom animals. Some of these reservoirs are well suited for raising commercial fish and invertebrate-feeding animals which do not exist in the water-supplying rivers. In 1955, various Crimean organizations, in cooperation with hydrobiological scientific institutions of Dnepropetrovsk and Kiyev, began to put new kinds of fish (the pike perch, bream, carp and others) into these ponds and reservoirs. This called for the introduction of feeding animals, and the Dnepropetrovskiy nauchno-issledovatel!skiy institut gidrobiologii Gosuniversiteta (Dnepropetrovsk Scientific Research Institute of Hydro-Biology of the State University) started putting out experimentally such animals as oligochaete worms, branchiate mollusks and crustacea. fessor G.B. Mel'nikov controls the chemical and hydrobiological investigations of the stocked reservoirs and the newly introduced fish and invertebrates.

Card 1/2

Enrichment of the Fresh Water Fauna of the Crimea

26-58-6-10/56

ASSOCIATION: Nauchno-issledovatel'skiy institut gidrobiologii Dnepropetrovskogo gosudarstvennogo universiteta imeni 300-letiya vossoyedineniya Ukrainy s Rossiyey
(Scientific Research Institute of Hydrobiology of the Dnepropetrovsk State University imeni 300th Anniversary of the Reunion of the Ukraine with Russia)

Card 2/2

1. Resevoirs 2. Fishes 3. Water fauna-Enrichment

Zhuravel'. P.A. AUTHOR:

SOV-21-58-8-23/27

TITLE:

New Crustacean Species in the Vasil'kov Reservoir on the Volchaya River (Novyye vidy rakoobraznykh v Vasil'kovskom

vodokhranilishche na reke Volch'yey)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 8,

pp 891-892 (USSR)

ABSTRACT:

Gammaridae and Mysidae were introduced into the Vasil'kov reservoir on the Volch'ya river (affluent of the Samara-Dneprovskaya) as an experiment. Of the Mysidae, the species introduced were Mesomysis kowalewskyi Gzern. and Limnomysis benedeni Czern. The planted organisms soon became habituated to the environment and spread all over the reservoir and upstream. In view of the fact that Mysidae are active filterers, they should play an important part as biofilter components in potable water reservoirs after more development. There are 6 references, 5 of which are Soviet and 1 Hungarian.

ASSOCIATION:

Dnepropetrovskiy nauchno-issledovatel'skiy institut gidrobiologii (Dnepropetrovsk Scientific Research Institute of

Hydrobiology)

Care 1/2

"APPROVED FOR RELEASE: 07/16/2001

SOV-21-58-8-23/27

PRESENTED:

New Crustacean Species in the Vasil'kov Reservoir on the Volchaya River

By Member of the AS UkrSSR, A.P. Markevich

SUBMITTED:

May 9, 1958

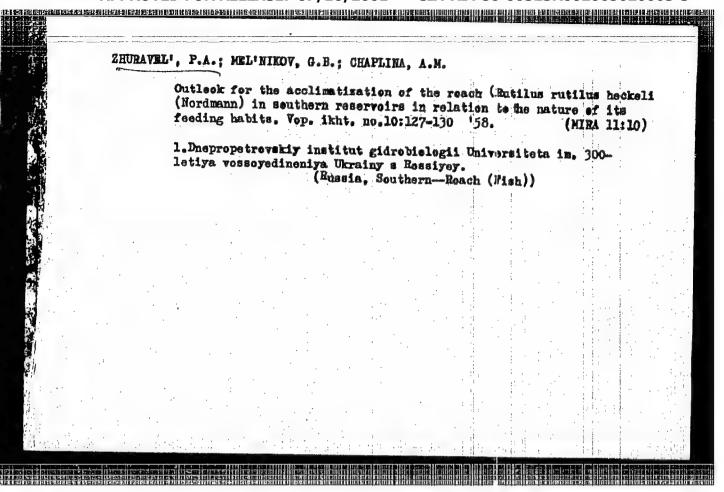
NOTE:

Russian title and Russian names of individuals and isntitutions appearing in this article have been used in the transliteration.

1. Inland waterways

2. Plants-Growth 3. Water-Purification

Card 2/2



ZHURAVEL! P.A.; MEL'NIKOV, G.B.; CHAPLINA, A.N.

Significance of the bream Abramis ballerus for fishery in a number of reservoirs in connection with the nature of its food (with summary in English). Zool. shur. 37 no.8:1256-1257 Ag '58. (MIRA 11:9)

1. Nauchno-issledovatel'skiy institut gidrobiologii Dnepropetrovskogo gosudarstvennogo universiteta.
(Bream)

ZHURAVEI	Lt, P.A., prof.										
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SOV/21-59-1-22/26 Zhuravel. A Mysis That is New for the Dnepr System - Hemimysis AUTHOR: Anomala Sars - in the Dnepr Reservoir (Novaya dlya sistemy Dnepra mizida - Hemimysis anomala Sars v TITLE: Dneprovskom vodokhranilishche) Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 1, PERIODICAL: pp 85-87 (USSR) A Hemimysis anomala Sars was revealed in the lower, A Hemimysis anomala Sars was revealed in the lower, near the dam portion of the Dnepr reservoir (Lenin lake) in September 1958 at depths of 5-30 m and more. It was brought into the reservoir in 1957, together with the estuary fauna caught in the upper portion of the Dnepr estuary, and the lower (estuary-like) Ingulets river, to stock the new reservoir. The mysis now behaves like a deep-water species. The dragging of the bottom was performed by the author. ABSTRACT: dragging of the bottom was performed by the author, Card 1/2

SOV/21-59-1-22/26

TITUMBENDATUT TOTATIST OTT 1995 | TELESTON OTT 1995 | 150 (1991) 1995 | 1895 | 1895 | 1895 | 1895 | 1895 | 189

A Mysis That is New for the Dnepr System - Hemimysis Anomala Sars - in the Dnepr Reservoir

> and a group of workers of the Dnepropetrovsk Institute of Hydrobiology, which included V.L. Bulakh, P.Ya. Lavrinenko. The Hemimysis anomala was transplanted to breed in the Dnepr estuary and Dnepr reservoir areas, to provide forage for the fish.

ASSOCIATION: Institut gidrobiologii Dnepropetrovskogo gosudarstvenno-go universiteta (Hydrobiology Institute of the Dnepro-

petrovsk State University).

PRESENTED: October 6, 1958, by A.P. Markevich, Member of the

AS UKrssr

Card 2/2

SOV/21-59-3-19/27 Zhuravel', P.A. and Yevdushchenko, A.Y. 30(1) AUTHORS: On the Study of the Hydrobiology of the Makortovskiy Reservoir in the Krivey Rog Basin (K izuche-TITLE: niyu gidrobiologii Makortovskogo wodokhranilishcha v Krivorozhskom basseyne) Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 3, PERIODICAL: pp 309-311 (USSR) In order to secure access to certain iron ore deposits of the Kriwoy Rog Basin, a section of the ABSTRACT: Saksagan river was diverted creating several water reservoirs, the largest of which is the Makortovskiy reservoir, located within the Pyatikhatskiy and Sofiyevskiy rayors of the Dnepropetrovskaya oblast'. Its area of lower banked-up water is 2,000 hectares. The depth at the dam is about 20 m. It was filled in 1957. A considerable variety of mollusks, higher crustaceans, fish, etc, has already been introduced into the reservoir, and This undertaking and the study more will follow. Card 1/2

SOV/21-59-3-19/27

On the Study of the Hydrobiology of the Makortovskiy Reservoir in the Kriyvoy Rog Basin

of the reservoir are in the hands of Institut gidrobiologii Dnepropetrovskogo universiteta (Institute of Hydrobiology of Dnepropetrovsk University) and Oblastnaya sanitarnaya inspektsiya (Oblast' Sanitary Inspection). The authors encourage the use of the reservoir for fish breeding and emphasize the necessity of further hydrobiological and ichtyological studies of the reservoir. are 8 Soviet references.

ASSOCIATION: Institut gidrobiologii Dnepropetrovskogo gosudarstvennogo universiteta (Institute of Hydrobiology of Dnepropetrovsk State University)

December 12, 1958, by A.P. Markevich, Member of the

PRESENTED: AS UKrSSR

Card 2/2